







OIPE

RAW SEQUENCE LISTING

DATE: 06/03/2002 TIME: 13:13:47

PATENT APPLICATION: US/10/083,842A

- Input Set : A:\PTO.VSK.txt Output Set: N:\CRF3\06032002\J083842A.raw 3 <110> APPLICANT: Syngenta Biotechnology, Inc. Grina, Jonas 6 <120> TITLE OF INVENTION: NOVEL CYANOENAMINES USEFUL AS LIGANDS FOR MODULATING GENE EXPRESSION IN PLANTS OR ANIMALS 9 <130> FILE REFERENCE: 1392/2/2 11 <140> CURRENT APPLICATION NUMBER: US/10/083,842A C--> 12 <141> CURRENT FILING DATE: 2002-05-21 14 <150> PRIOR APPLICATION NUMBER: 60/272,905 A. Jan 15 <151> PRIOR FILING DATE: 2001-03-02 17 <160> NUMBER OF SEQ ID NOS: 12 19 <170> SOFTWARE: PatentIn version 3.0 21 <210> SEQ ID NO: 1 22 <211> LENGTH: 17 23 <212> TYPE: DNA C--> 24 <213> ORGANISM: Artificial 26 <220> FEATURE: 27 <223> OTHER INFORMATION: primer containing synthetic TATA box 29 <220> FEATURE: 30 <221> NAME/KEY: misc_feature 31 <222> LOCATION: (1)..(17) 32 <223> OTHER INFORMATION: primer containing synthetic TATA box 35 <400> SEQUENCE: 1 36 agcttgaggg tataatg 17 39 <210> SEQ ID NO: 2 40 <211> LENGTH: 17 41 <212> TYPE: DNA C--> 42 <213> ORGANISM: Artificial 44 <220> FEATURE: 45 <223> OTHER INFORMATION: primer containing synthetic TATA box 47 <220> FEATURE: 48 <221> NAME/KEY: misc_feature 49 <222> LOCATION: (1)..(17)
- - 50 <223> OTHER INFORMATION: primer containing synthetic TATA box
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 - 65 <220> FEATURE:
 - 66 <221> NAME/KEY: misc_feature

17

DATE: 06/03/2002

TIME: 13:13:47

Input Set : A:\PTO.VSK.txt Output Set: N:\CRF3\06032002\J083842A.raw 67 <222> LOCATION: (1)..(36) 68 <223> OTHER INFORMATION: PCR primer for amplification of Drosophila melanogaster DNA 71 <400> SEQUENCE: 3 72 gatccgagac aagggttcaa tgcacttgtc caatga 36 75 <210> SEQ ID NO: 4 76 <211> LENGTH: 36 77 <212> TYPE: DNA C--> 78 <213> ORGANISM: Artificial 80 <220> FEATURE: 81 <223> OTHER INFORMATION: PCR primer for amplification of Drosophila melanogaster DNA 83 <220> FEATURE: 84 <221> NAME/KEY: misc_feature 85 <222> LOCATION: (1)..(36) 86 <223> OTHER INFORMATION: PCR primer for amplification of Drosophila melanogaster DNA 89 <400> SEQUENCE: 4 90 gctctgttcc caagttacgt gaacaggtta ctctag 93 <210> SEQ ID NO: 5 94 <211> LENGTH: 147 95 <212> TYPE: DNA C--> 96 <213> ORGANISM: Artificial 98 <220> FEATURE: 99 <223> OTHER INFORMATION: multimerized binding site of Drosophila melanogaster hsp27 gene 101 <220> FEATURE: 102 <221> NAME/KEY: misc_feature 103 <222> LOCATION: (1)..(147) 104 <223> OTHER INFORMATION: multimerized binding site of Drosophila melanogaster hsp27 gene 107 <400> SEQUENCE: 5 60 108 gatccgagac aagggttcaa tgcacttgtc caatgagatc cgagacaagg gttcaatgca 120 110 cttqtccaat qaqatctcat tqqacaaqtq cattqaacct tqtctcqqat ctcattqqac 147 112 aagtgcattg aaccettgte teggate 115 <210> SEQ ID NO: 6 116 <211> LENGTH: 2840 117 <212> TYPE: DNA 118 <213> ORGANISM: Manduca sexta 120 <220> FEATURE: 121 <221> NAME/KEY: CDS 122 <222> LOCATION: (361)..(2031) 123 <223> OTHER INFORMATION: Manduca sexta Ecdysone Receptor 126 <400> SEQUENCE: 6 127 teegttgaeg aeggtegeae gegtgeaaeg tgetegtttt taeggeteaa gegaaegegt 60 129 aaccteegte tecacateae egagegaact etagaacteg egtactette teacetgttg 120 180 131 cttcggattg tgttgtgact gaaaagcgac gcgtatcgtg gtcgaagatt ctctataagt 240 133 gcataatata ttcgagacag tggatagcga ttcgtttcgg tttcatcgcg cggatgagtg

135 gttcatgccc gtagagacgc gtttagatag ttatggcgag gaaaaagtga agtgaaagcc

137 tacqtcagaq qatqtccctc qqtqqtcacq gaagccgggg cqtqtgacqc gctcttcgac

10

139 atg aga cgc cgc tgg tca aac aac gga tgt ttc cct ctg cga atg ttt 140 Met Arg Arg Trp Ser Asn Asn Gly Cys Phe Pro Leu Arg Met Phe

143 gag gag age tee tet gaa gtg aet tet tee teg geg tte ggg atg eeg

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/083,842A

300

360 408

456

141 1

5

RAW SEQUENCE LISTING

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Input Set : A:\PTO.VSK.txt

Output Set: N:\CRF3\06032002\J083842A.raw

| 14 14 | 4 Glu 5 | Glu | Ser | Ser 20 | Ser | Glu | Val | Thr | Ser 25 | Ser | Ser | Ala | Phe | Gly 30 | Met | Pro | |
|----------|------------|-------|---------|------------|-----|------|---------------------|------|-----------|-----|------|-------|-------|-----------|------|------|---------|
| 14 | 7 gcg | acc | atσ | αta | atσ | tca | cca | gag | tca | cta | aca | tca | сса | σασ | tac | aac | 504 |
| | 8 Ala | | | | | | | | | | | | | | | | |
| | | ніа | | vaı | Met | Set | PIO | | ser | Leu | Ala | Ser | | GIU | тут | СТУ | |
| 14 | 9 | | 35 | | | | | 40 | | | | | 45 | | | | |
| 15 | 1 ggc | ctc | gag | ctc | tgg | agc | tac | gat | gag | acc | atg | aca | aac | tat | ccg | gcg | 552 |
| 15 | 2 Gly | Leu | Glu | Len | Trp | Ser | Tvr | Asp | Glu | Thr | Met | Thr | Asn | Tvr | Pro | Ala | |
| 15 | _ | 50 | | Lou | | 001 | 55 | e | 020 | | | 60 | | -1- | | | |
| | | | | | | | | | | | | | | | | | 600 |
| | 5 cag | | | | | | | | | | | | | | | | 600 |
| 15 | 6 Gln | Ser | Leu | Leu | Gly | Ala | Cys | Asn | Ala | Pro | Gln | Gln | Gln | Gln | Gln | Gln | |
| 15 | 7 65 | | | | | 70 | | | | | 75 | | | | | 80 | |
| | 9 caa | 022 | Can | Car | CCG | too | act | cad | cca | cta | CCG | tot | ato | cca | cta | cca | 648 |
| | | | | | | | | | | | | | | | | | |
| | 0 Gln | GIN | GIII | GIII | | ser | Ald | GIII | PLO | | PIO | ser | Met | PIO | | PIO. | |
| 16 | 1 | | | | 85 | | | | | 90 | | | | | 95 | | |
| 16 | 3 atg | cct | cct | aca | act | cct | aaa | tca | gag | aac | qaq | tcc | atg | tcg | tca | ggt | 696 |
| 16 | 4 Met | Pro | Pro | Thr | Thr | Pro | Lvs | Ser | Glu | Asn | Glu | Ser | Met | Ser | Ser | Glv | |
| 16 | | | | 100 | | | 10 | | 105 | | | | | 110 | | 1 | |
| | | | | | | | | | | | | | | | | | 744 |
| | 7 cga | | | | | | | | | | | | | | | | 744 |
| 16 | 8 Arg | Glu | Glu | Leu | Ser | Pro | Ala | Ser | Ser | Ile | Asn | Gly | Cys | Ser | Thr | Asp | |
| 16 | 9 | | 115 | | | | | 120 | | | | | 125 | | | | |
| | 1 ggg | паа | cca | апа | cga | саσ | ааσ | | σσσ | cca | aca | cca | ĊŒĊ | caσ | cag | gag | 792 |
| | | | | | | | | | | | | | | | | | , , , = |
| | 2 Gly | | PIO | AIG | Arg | GIII | _ | гуѕ | СТА | PIO | Ата | | AIG | GIII | GIII | GIU | |
| 17 | | 130 | | | | | 135 | | | | | 140 | | | | | |
| 17 | 5 gaa | ctg | tgc | ctt | gtt | tgc | ggc | gac | agg | gct | tcg | gga | tat | cac | tat | aac | 840 |
| 1.7 | 6 Glu | Leu | Cvs | Leu | Val | Cvs | Glv | Asp | Ara | Ala | Ser | Glv | Tvr | His | Tvr | Asn | |
| | 7 145 | | -1- | | | 150 | 1 | | | | 155 | 1 | - 2 - | | 1 | 160 | |
| | | | | | | | | | | | | | | | ~+~ | | 000 |
| | 9 gcg | | _ | - | - | | _ | | | | | | | | | | 888 |
| 18 | 0 Ala | Leu | Thr | Cys | Glu | Gly | Cys | Lys | Gly | Phe | Phe | Arg | Arg | Ser | Val | Thr | |
| 18 | 1 | | | | 165 | | | | | 170 | | | | | 175 | | |
| 18 | 3 aag | aat | aca | αta | tat | att | tat | aaa | ttt | σσα | cac | gcc | tac | σασ | at.σ | gac | 936 |
| | 4 Lys | | | - | | | _ | | | | | - | _ | | - | | |
| | _ | ASII | Ата | | тут | 116 | Суз | цуз | | GIY | птэ | Ата | Cys | | Hec | изр | |
| 18 | | | | 180 | | | | | 185 | | | | | 190 | | | |
| 18 | 7 atg | tac | atg | agg | aga | aaa | tgc | caa | gag | tgt | cgg | ttg | aag | aaa | tgc | ctc | 984 |
| 18 | 8 Met | Tyr | Met | Arg | Arg | Lys | Cys | Gln | Glu | Cys | Arg | Leu | Lys | Lys | Cys | Leu | |
| 18 | | - | 195 | _ | _ | - | _ | 200 | | _ | _ | | 205 | | | | |
| | l gcg | a+ a | | 2+0 | 200 | 000 | <i>a</i> 2 <i>a</i> | | ata | ata | 002 | a a a | | 200 | tac | 220 | 1032 |
| | | | | | | | | | | | | | | | | | 1032 |
| | 2 Ala | | СТÄ | Met | Arg | Pro | | Cys | vaı | vaı | Pro | | ser | Thr | Cys | гăг | |
| 19 | 3 | 210 | | | | | 215 | | | | | 220 | | | | | |
| 19 | 5 aac | aaa | aga | aga | gaa | aag | qaa | qca | caq | aga | gaa | aaa | gac | aaa | ctg | cca | 1080 |
| | 6 Asn | | | | | | | | | | | | | | | | |
| | 7 225 | 10 | 5 | 5 | | 230 | | | | 5 | 235 | -1- | L | -1- | | 240 | |
| | | | | | | | | | 4_ | | | | | | | | 1100 |
| | gtc | | | | | | | | | | | | | | | | 1128 |
| 20 | 0 Val | Ser | Thr | ${	t Thr}$ | Thr | Val | Asp | Asp | His | Met | Pro | Ala | Ile | Met | Gln | Cys | |
| 20 | 1 | | | | 245 | | | | | 250 | | | | | 255 | | |
| | 3 gac | cct | cca | ccc | cca | gag | aca | gca | aσσ | att | cac | gaa | ata | atc | cca | agg | 1176 |
| | 4 Asp | | _ | | | | | - | | | | _ | | _ | _ | | • |
| | _ | F 1 U | 110 | | 110 | Jiu | ALU | AIU | _ | 116 | 1113 | JIu | , uı | | 110 | y | |
| 20 | | | | 260 | | | | | 265 | | | | | 270 | | | |
| | 7 ttc | | | | | | | | | | | | | | | | 1224 |
| 20 | B Phe | Leu | Thr | Glu | Lys | Leu | Met | Glu | Gln | Asn | Arg | Leu | Lys | Asn | Val | Thr | |
| | | | | | _ | | | | | | - | | - | | | | |

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Input Set : A:\PTO.VSK.txt

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| 209 | | | 275 | | | | | 280 | | | | | 285 | | | | |
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| | ccg | ctq | | aca | aac | caq | aaq | | cta | atc | qcq | agg | | qtq | tqq | tac | 1272 |
| | Pro | | | | | | | | | | | | | | | | |
| 213 | | 290 | | | | | 295 | | | | | 300 | | , | | | |
| 215 | cag | gag | ggg | tac | gag | cag | ccg | tcg | gag | gaa | gat | ctc | aag | aga | gtt | aca | 132,0 |
| 216 | Gln | Glu | Gly | Tyr | Glu | Gln | Pro | Ser | Glu | Glu | Asp | Leu | Lys | Arg | Val | Thr | |
| 217 | 305 | | _ | _ | | 310 | | | | | 315 | | | | | 320 | |
| 219 | cag | aca | tgg | cag | tta | gaa | gaa | gaa | gaa | gag | gag | gaa | act | gac | atg | CCC | 1368 |
| 220 | Gln | Thr | Trp | Gln | Leu | Glu | Glu | Glu | Glu | Glu | Glu | Glu | Thr | Asp | Met | Pro | |
| 221 | | | | | 325 | | | | | 330 | | | | | 335 | | |
| | ttc | | | | | | | | | | | | | | | | 1416 |
| 224 | Phe | Arg | Gln | Ile | Thr | Glu | Met | Thr | Ile | Leu | Thr | Val | Gln | Leu | Ile | Val | |
| 225 | | | | 340 | • | , | | | 345 | | | | | 350 | | • • • | |
| | gaa | | _ | _ | | | _ | | | | _ | | | | | | 1464 |
| 228 | Glu | Phe | Ala | Lys | Gly | Leu | Pro | _ | Phe | Ser | Lys | Ile | Ser | Gln | Ser | Asp | |
| 229 | | | 355 | | | | | 360 | | | | | 365 | | | | |
| | caa | | | | | | | | | | | | | | | | 1512 |
| 232 | Gln | Ile | Thr | Leu | Leu | Lys | Ala | Ser | Ser | Ser | Glu | | Met | Met | Leu | Arg | |
| 233 | | 370 | | | | | 375 | | | | | 380 | | | | | |
| | gtg | | | | | | | | | | | | | | | | 1560 |
| | Val | Ala | Arg | Arg | Tyr | _ | Ala | Ala | Thr | Asp | | Val | Leu | Phe | Ala | | |
| | 385 | | | | | 390 | | | | | 395 | | | | | 400 | |
| | aac | | | | | | | | | | | | | | | | 1608 |
| | Asn | Gln | Ala | Tyr | | Arg | Asp | Asn | Tyr | | Lys | Ala | Gly | Met | | Tyr | |
| 241 | | | | | 405 | | | | | 410 | | | | | 415 | | |
| | gtc | | | | | | | | | | | | | | | | 1656 |
| | Val | Ile | Glu | | Leu | Leu | His | Phe | _ | Arg | Cys | Met | Tyr | | Met | Ser | |
| 245 | | | | 420 | | | | | 425 | | | | | 430 | | | 1704 |
| | atg | | | | | | | | | | | | | | | | 1704 |
| | Met | Asp | | vaı | HIS | туг | Ата | | Leu | THE | Ala | TIE | 445 | тте | Pne | ser | |
| 249 | ~~~ | ~~~ | 435 | ~~~ | a+ a | ~~~ | ~~~ | 440 | a++ | ++- | ~+~ | | | 2+0 | 020 | 202 | 1752 |
| | gac | | | | | | | | | | | | | | | | 1/32 |
| 253 | Asp | 450 | PIO | СТУ | пеп | GIU | 455 | PLO | ьеu | ьеu | vaı | 460 | Gra | 116 | GIII | AIG | |
| | tac | | ttα | аал | aca | ata | | att | tac | att | tta | | car | cac | agc | aca | 1800 |
| | Tyr | | | | | | | | | | | | | | | | 1000 |
| | 465 | ı yı | пец | цуз | 1111 | 470 | лту | VUI | TYT | 11.0 | 475 | пэп | OIII | 1113 | 501 | 480 | |
| | tcg | cct | cac | tac | acc | | cta | ttc | aac | aaσ | | ata | aac | ata | cta | | 1848 |
| | Ser | | | | | | | | | | | | | | | | 1010 |
| 261 | 001 | 110 | *** 9 | 0,0 | 485 | , | | | 017 | 490 | | | 011 | | 495 | | |
| | gaa | cta | cac | асσ | | ggc | асσ | caσ | aac | | aac | at.σ | tac | at.c | | cta | 1896 |
| | Glu | | | | | | | | | | | | | | | | |
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| | aag | cta | aaq | | agg | aaa | ctt | ccq | | ttc | ctc | gag | gag | | tgg | gac | 1944 |
| | Lys | | | | | | | | | | | | | | | | |
| 269 | • | | 515 | | - , | • - | | 520 | | | | | 525 | | | - | |
| | gtg | gcc | gaa | gtg | tcg | acg | acg | cag | ccg | acg | ccg | ggg | gtg | gcg | gcg | cag | 1992 |
| | Val | | | | | | | | | | | | | | | | |
| 273 | | 530 | | | | | 535 | | | | | 540 | | | | | |
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| | | Thr | Pro | Ile | Val | | Asp | Asn | Pro | Ala | | Leu | | | | | | |
| | 545 | | | | | 550 | | | | | 555 | | | | | | | 0101 |
| | | | | | | | | | | | | | | | | jecece | | 2101 |
| | | | | | | | | | | | | | | | | ctagtt | | 2161 |
| | | | | | | | | | | | | | | | | igtgca | | 2221 |
| | | | | | | | | | | | | | | | | gcgtga | | 2281 |
| | | | | | | | | | | | | | | | | gtcggg | | 2341 |
| | | | | | | | | | | | | | | | | ctccgc | | 2401 |
| | | | | | | | | | | | | | | | | ataaga | | 2461 |
| | | | _ | | _ | | - | - | | _ | | - | | | | jaaaaa | | 2521 2581 |
| | | | | | | | | | | | | | | | | ttaco | | 2641 |
| | | | | | - | | _ | | | | | | | | | atcgt | | 2701 |
| | | - | - | | | - | | _ | | | | | | | | geggg | | 2761 |
| | - | | | | - | - | | _ | | | | | - | | | gagact | | 2821 |
| | | | | ttat1 | - | | Luuci | 19900 | ı uuş | jugo | jucy | uuc | , | -Cu | cyccs | gagact | | 2840 |
| | | | _ | D NO | | • | | | | • | • | | | | • | | | 2010 |
| | | | | H: 5! | | | | | | | | | | | | | | |
| | | 2> T | | | | | | | | | | | | | | | | |
| | | | | | Mano | luca | sext | :a | | | | | | | | | | |
| | | | | NCE: | | | | | | | | | | | | | | |
| | | | | | | Ser | Asn | Asn | Gly | Cys | Phe | Pro | Leu | Arg | Met | Phe | | |
| 316 | | - | - | _ | 5 | | | | - | 10 | | | | - | 15 | | | |
| 319 | Glu | Glu | Ser | Ser | Ser | Glu | Val | Thr | Ser | Ser | Ser | Ala | Phe | Gly | Met | Pro | | |
| 320 | | | | 20 | | | | | 25 | | | | | 30 | | | | |
| 323 | Ala | Ala | Met | Val | Met | Ser | Pro | Glu | Ser | Leu | Ala | Ser | ${\tt Pro}$ | ${\tt Glu}$ | Tyr | Gly | | |
| 324 | | | 35 | | | | | 40 | | | | | 45 | | | | | |
| 327 | Gly | Leu | Glu | Leu | Trp | Ser | \mathtt{Tyr} | Asp | Glu | Thr | Met | | Asn | Tyr | Pro | Ala | | |
| 328 | | 50 | | | | | 55 | | | | | 60 | | | | | | |
| | | Ser | Leu | Leu | Gly | | Cys | Asn | Ala | Pro | | Gln | Gln | Gln | Gln | | • | • |
| 332 | | _ | _ | _ | | 70 . | | | | _ | 75 | _ | | _ | _ | 80 | | |
| | Gln | Gln | Gln | Gln | | Ser | Ala | Gln | Pro | | Pro | Ser | Met | Pro | Leu | Pro | | |
| 336 | | _ | _ | | 85 | _ | _ | ~ . | a 1 | 90 | a 1 | a | 30.4 | a | 95 | 7 1 | | |
| | Met | Pro | Pro | | Thr | Pro | ьуs | ser | | Asn | GIU | ser | мет | | Ser | GTÄ | | |
| 340 | 3 | a 1 | a 1 | 100 | 0 | D | 21- | G | 105 | -1 - | 1 | ~ 3 | | 110 | m b so | 7 | | |
| | Arg | GIU | 115 | ьeu | ser | Pro | Ата | 120 | ser | тте | ASII | GIA | 125 | ser | Thr | ASP | | |
| 344 | C1 | C1., | | 7 ~~ | 7 ma | cln | T 110 | | C117 | Dro | 717 | Dro | | Cln | Gln | Clu | | |
| | | | | | | | цуS 135 | | | | | 140 | | GTII | GIII | GIU | | |
| | | | | | | | | | | | | | | Hic | Tyr | Asn | | |
| 352 | | пси | Суз | пси | Val | 150 | GLY | пор | Arg | niu | 155 | O L Y | - 1 - | 1115 | - 1 - | 160 | | |
| | | T.eu | Thr | Cvs | Ġlu | | Cvs | Lvs | Glv | Phe | | Ara | Arσ | Ser | Val | | | |
| 356 | | | | -15 | 165 | 1 | -1- | -1- | 1 | 170 | | 5 | 5 | | 175 | | | |
| | Lvs | Asn | Ala | Va l | | Ile | Cvs | Lvs | Phe | | His | Ala | Cys | Glu | Met | Asp | | |
| 360 | -1- | - | | 180 | - 1 - | | . 4 | | 185 | 4 | - | | 4 | 190 | - | • | | |
| | Met | Tyr | Met | | Arq | Lys | Cys | Gln | Glu | Cys | Arg | Leu | Lys | Lys | Cys | Leu | | |
| 364 | | - | 195 | _ | _ | - | - | 200 | | - | - | | 205 | - | - | | | |
| | Ala | Val | Gly | Met | Arg | Pro | Glu | Cys | Val | Val | Pro | Glu | Ser | Thr | Cys | Lys | | |
| | | | - | | | | | | | | | | | | | | | |

RAW SEQUENCE LISTING ERROR SUMMARY PATENT APPLICATION: US/10/083,842A

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Input Set : A:\PTO.VSK.txt

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Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,8,9,10,11,12

VERIFICATION SUMMARY

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L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:24 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:1
L:42 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:2
L:60 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:3
L:78 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:4
L:96 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:5
L:458 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:8
L:476 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:9
L:494 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:10
L:512 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:11
L:530 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:12